JAMECO
ELECTRONIC COMPONENTS
COMPUTER PRODUCTS

Part No. 146915
Product No. UP0303S-0151

UMEC 25Watt Switching Power Supply

1355 Shoreway Rd., Belmont, CA 94002 • Tel: 650-592-8097 • Fax: 650-592-2503 • BBS: 650-637-9025

Features:

Input: 110 - 240V @ 47-63Hz / 700mA max.

Output: +12VDC@1.5A; +5VDC@3.0A; -12VDC@300mA

Auto switch input

Size: 3.5"L x 2.5"W x 0.8""H

Weight: 0.33lbs.

Agency Approvals

TÜV Rheinland

Compatible Products:

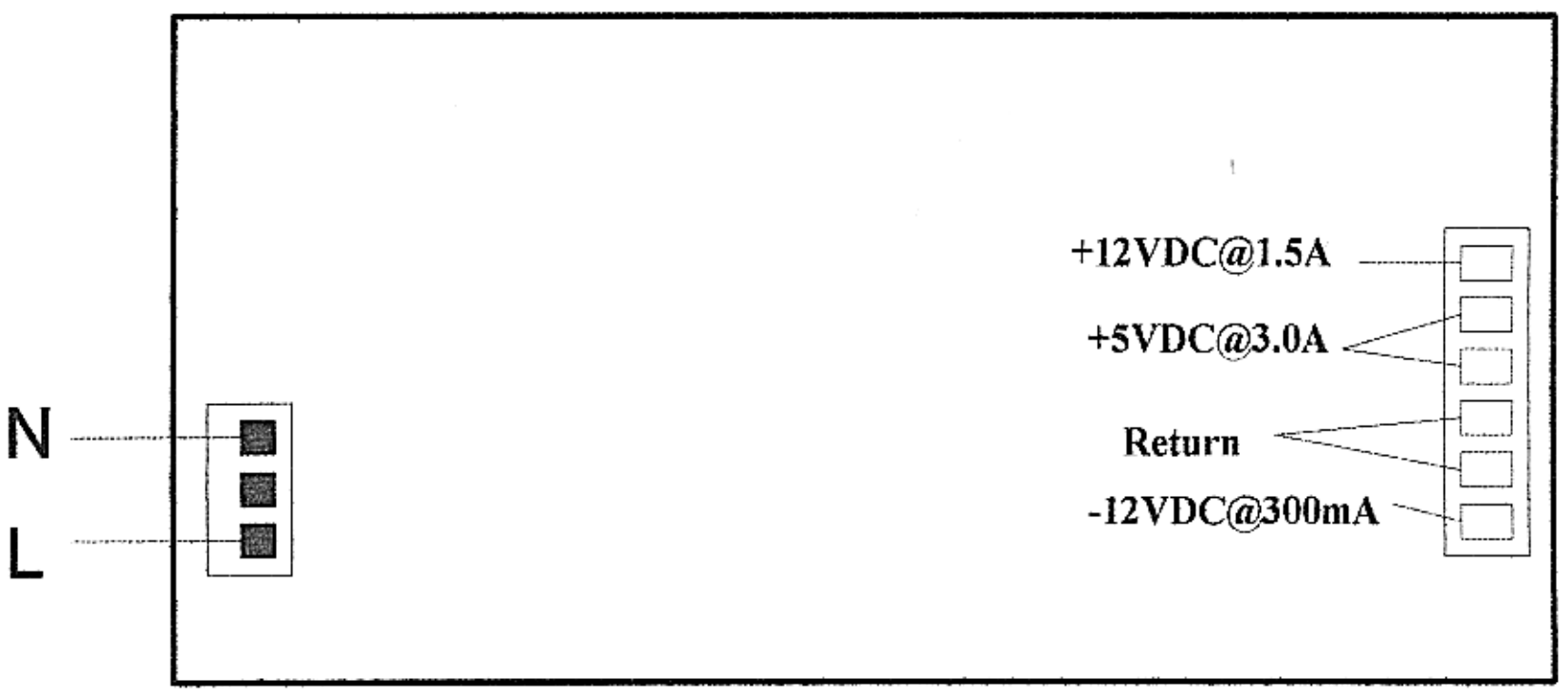
Input mating connector: P/N 104432 (p.44)

Output mating connector: P/N 104731 (p.44)

Note:

Suggested minimum load is 10% of the rated output current for each output

Fuse:

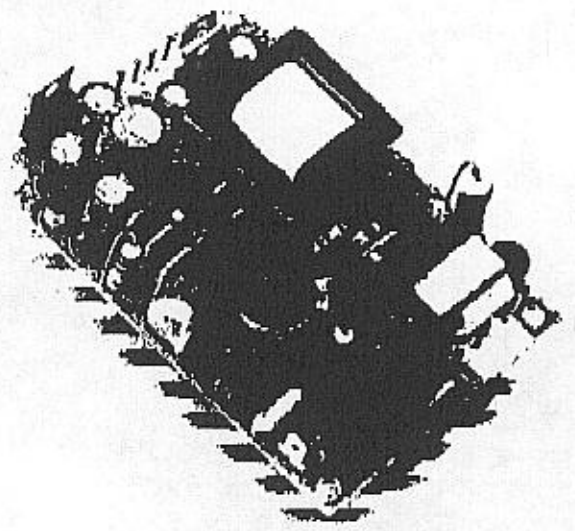


P/N 146915

UP030( )S-( )( ) SERIES

30 Watt Open Frame Switcher

- Small Size
- Universal Input 90 to 264 VAC
- CSA Certificate and report
- TÜV Pending
- Conductive EMI Meets FCC/VDE Class B
- Continuous Short Circuit Protection



SPECIFICATIONS

All Specifications are Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

OUTPUT SPECIFICATIONS

UP0301S-XX:
Voltage Accuracy ..... Adjustable ±5%
UP0303S-XX:
Voltage Accuracy
+5VDC Primary Output (V1) ..... ±3%
Auxiliary Outputs (V2,V3) ..... ±5%
Continuous Output Power ..... 30W max.
Hold-up Time[1] ..... 16mS typ.
Short Circuit Protection ..... Continuous

INPUT SPECIFICATIONS

Input Voltage Range ..... 90-264 VAC
Inrush Current ..... 30A max. (Cold Start)
Input Frequency 47-63Hz

GENERAL SPECIFICATIONS

Efficiency[2] ..... 70% typ.
Hi-pot Isolation: Input/Output ..... 4200 VDC

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range ..... 0°C to 70°C
Derating, 50°C to 70°C ..... 2%/°C
Temperature Coefficient ..... ±0.02%/°C
Storage Temperature Range ..... -40°C to +85°C
Humidity, Non-Condensing ..... 0 to 95% RH
Cooling ..... Free-Air Convection
EMI Filter (on Board):
Conducted ..... Meets FCC/VDE Class B Specification

PHYSICAL SPECIFICATIONS

Weight 180g

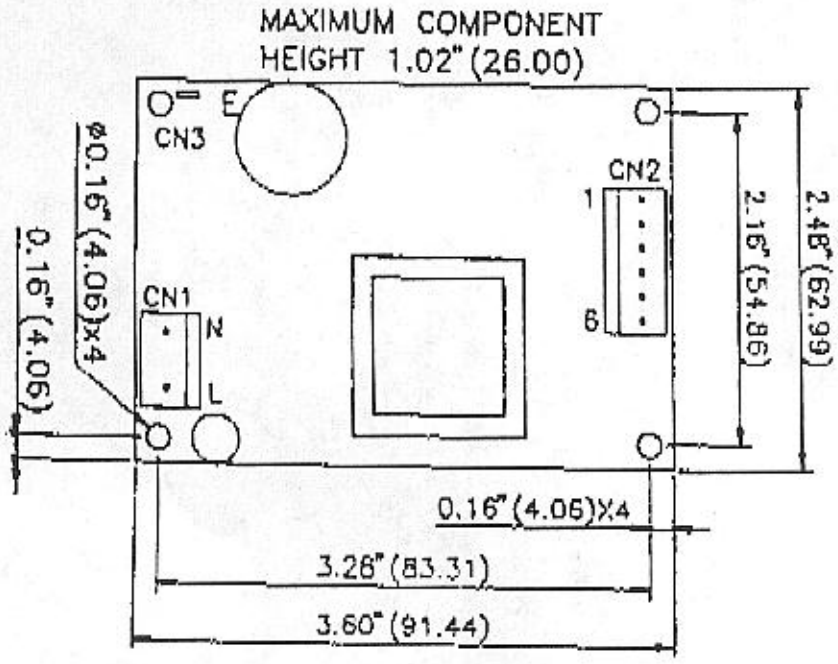
NOTES:
1. Measured at Vin=115VAC, Full Load.
2. Measured at Vin=115/230 VAC, Full Load.

MODEL NUMBER	OUTPUT VOLTAGE	OVP	MINIMUM	MAXIMUM	PEAK[2]	RIPPLE, P-P	TOTAL REGULATION[1]
UP0301S-05	5V	v	0	5 A	6 A	50 mV	±3%
UP0301S-09	9V		0	3 A	3.3 A	90 mV	±2%
UP0301S-12	12V		0	2.5 A	3 A	120 mV	±2%
UP0301S-15	15V		0	2 A	2.4 A	150 mV	±2%
UP0301S-18	18V		0	1.67 A	2 A	180 mV	±2%
UP0301S-24	24V		0	1.25 A	1.5 A	240 mV	±2%
UP0303S-01	+5V (V1)	v	0	2 A	3 A	50 mV	±3%
	+12V (V2)		0	1 A	1.5 A	120 mV	±5%
	−12V (V3)		0	0.2 A	0.3 A	120 mV	±5%
UP0303S-02	+5V (V1)	v	0	2 A	3 A	50 mV	±3%
	+12V (V2)		0	1 A	1.5 A	120 mV	±5%
	−5V (V3)		0	0.2 A	0.3 A	50 mV	±5%
UP0303S-03	+5V (V1)	v	0	2 A	3 A	50 mV	±3%
	+24V (V2)		0	0.5 A	1 A	240 mV	±5%
	−12V (V3)		0	0.2 A	0.3 A	120 mV	±5%

NOTES:

1. Total Regulation is Defined as The Static Output Regulation at 25°C, Including Initial Tolerance, Line Voltage Within Stated Limits, and Load Currents Within Stated Limits. But When V1 is Maximum Load and V2 is ≤ 1/10 Maximum Load. The Total Regulation Will be ±10% for UP0303S-XX.
2. Peak Output Current Lasting Less Than One Minute With Duty Factor Less Than 5%. During Peak Loading, Total Output Power Must not Exceed 30W for UP0303S-XX. Output Voltage May Exceed Total Regulation Limits.
3. V1 Must Have a Minimum of 20% Maximum Load for V3 To Supply Maximum Load in UP0303S-XX.

MECHANICAL OUTPUT AND PIN CONNECTIONS



NOTES:
1. All Dimensions In Inches (mm)
2. Tolerance: .XX =±0.05
   .XXX =±0.020

CN1 INPUT CONNECTOR MOLEX 09-65-2038 WITH SECOND PIN REMOVED	
PIN	INPUT VOLTAGE
L & N	90-264 VAC
MOLEX MATING CONNECTOR MOLEX 5195 SERIES HOUSEING WITH 5194 SERIES CRIMP TERMINALS	

CN2 OUTPUT CONNECTOR
MOLEX 09-65-2068

	MODEL			
PIN	UP0301S-XX	UP0303S-01	UP0303S-02	UP0303S-03
1	Vo	+12V	+12V	+24V
2		+5V	+5V	+5V
3				
4	Common	Common	Common	Common
5				
6		-12V	- 5V	-12V

MOLEX MATING CONNECTOR
MOLEX 5195 SERIES
HOUSING WITH 5194 SERIES CRIMP TERMINALS

CN3 INPUT GROUND TAB TAB SIZE 4.8x0.5(mm)
WITH RECEPTABLE FOR 4.8x0.5(mm) TAB

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Product Number: UMEC UP0303S-0151

Features:

Input: 110V - 240V @ 47 - 63HZ / 700mA max.
Output: +12VDC@1.5A; +5VDC@3.0A;
-12VDC@300mA
Autoswitch input
S-type lock headers 3-position; 2-pin input connectors and 6-pin output connectors,
Size: 3.5"L x 2.5"W x 0.8"H
Weight: 0.33lbs.

Agency Approvals

TÜV Rheinland

Compatible Products:

Input Mating Connector: P/N 104432 (p.44)

Output Mating Connector: P/N 104731 (p.44)

Note: Suggested minimum load is 10% of the rated output current for each output.
Total power ouput not to exceed 25Watts